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L-F/207US

In the Claims

1. (Previously Presented) A power injector system for use with a magnetic resonance imaging system installed at least in part within an electromagnetic interference shielded room electrically accessible via a penetration panel, the power injector system comprising:

a power head adapted for operation within the shielded room to controllably inject a compound into a patient;

power supply for operation outside the shielded room to receive utility electrical power; and

a power connection configured to couple electrical power through the penetration panel between the power supply outside of the shielded room and the power head for actuating the power head.

2. (Previously Presented) The power injector system of claim 1, further comprising

a control panel for generating data signals to control said power head adapted for operation outside the shielded room;

said power connection further coupling said data signals from said control panel to said power head for controlling said power head.

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3. (Previously Presented) A method of converting a battery-powered magnetic resonance (MR) injector system in a shielded magnet room to a remotely powered MR injector system, the method comprising:

placing a power supply outside of the shielded magnet room, the power supply coupled to an AC outlet for electrical power;

providing shielded cables having conductors adapted for electrical power transmission and further adapted for carrying data signals, wherein one cable positioned outside the magnet room couples the power supply to a penetration panel and the other cable positioned inside the magnet room couples to the penetration panel to be in communication with the MR injector system; and

modifying a MR injector system in said shielded magnet room to electrically couple power transmission from conductors of the shielded cables to conductors for receiving battery power in said MR injector system.

4. (Previously Presented) The method of claim 3, further comprising:

in the power supply, relaying data signals from a console in the control room to the shielded cable.

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5. (Original) The method of claim 3, further comprising:

in the power supply, coupling AC electrical power from an AC outlet to an AC outlet externally mounted on the power supply for powering the console.